



## 1. Overview

Report Production:	13-Dec-2017
Processor Used:	CryoSat Ocean Processor
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data

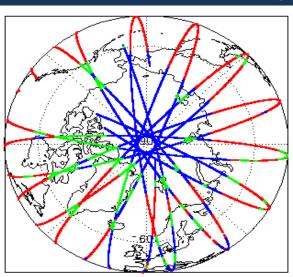
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary Correction Error Check	Nominal	Nominal
Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
Range, SWH & Backscatter Measurement Check	See Section 5.6, 5.7	See Section 6.6, 6.7
Ocean Retracking Quality Check	See Section 5.8	See Section 6.8

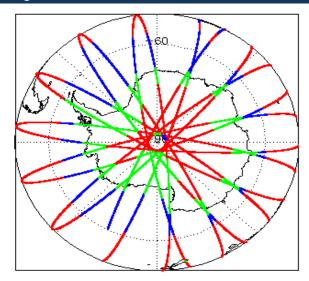
Mission / Instru	
12-Nov-2017	None

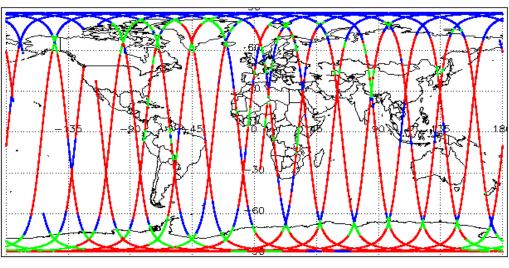
13-Nov-2017	None

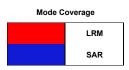
<sup>14-</sup>Nov-2017 Nothing planned

# 2. Global Coverage









## 3. Instrument Configuration

The SIRAL instrument configuration for the day of acquisition is provided below.

SIRAL instrument(s) in use: SIRAL - A

## 4. IOP Level 1B Data Quality Check

## 4.1 L1B Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL).

Number of products with errors:

0

### 4.2 L1B Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.

# 4.3 L1B Auxilary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.

Number of products with errors:

### 4.4 L1B Auxiliary Correction Error Check

CryoSat L1B data includes a correction error flag for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

- (

## 4.5 L1B Measurement Confidence Data Check

CryoSat L1B data includes a measurement confidence flag for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

63

Number of products with errors.	Took Falled	Description
Product  CS_OFFL_SIR_IOPM1B_20171113T045023_20171113T050452_C001	Test Failed Power scaling error	There is an error in the scaling of the L1B waveform for one or more
CS_OFFL_SIR_IOPM1B_20171113T100850_20171113T100952_C001	Power scaling error	records There is an error in the scaling of the L1B waveform for one or more
CS_OFFL_SIR_IOPM1B_20171113T220209_20171113T220310_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more
CS_OFFL_SIR_IOPM1B_20171113T233840_20171113T233902_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more
CS_OFFL_SIR_IOPR1B_20171112T235758_20171113T000044_C001	Attitude correction missing	records The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T001103_20171113T001234_C001	Attitude correction missing	The attitude has not been corrected
CS OFFL SIR IOPR1B 20171113T001238 20171113T001941 C001	Attitude correction missing	The attitude has not been corrected
CS OFFL SIR IOPR1B 20171113T002620 20171113T002954 C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T005850_20171113T010246_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T015217_20171113T015337_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T015352_20171113T015838_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T020034_20171113T020117_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T020216_20171113T020350_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T021207_20171113T021226_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T023625_20171113T024324_C001	Attitude correction missing	The attitude has not been corrected
	•	
CS_OFFL_SIR_IOPP1B_20171113T031216_20171113T031415_C001	Attitude correction missing	The attitude has not been corrected  The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T033719_20171113T033834_C001	Attitude correction missing  Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T040059_20171113T040205_C001 CS_OFFL_SIR_IOPR1B_20171113T043339_20171113T043422_C001		The attitude has not been corrected  The attitude has not been corrected
CS_OFFL_SIR_IOPRIB_201711131043339_01711131043422_0001  CS_OFFL_SIR_IOPRIB_20171113T044844_20171113T045023_0001	Attitude correction missing	The attitude has not been corrected  The attitude has not been corrected
	Attitude correction missing	
CS_OFFL_SIR_IOPR1B_20171113T050544_20171113T050545_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T050549_20171113T050607_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T050613_20171113T050616_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T051443_20171113T051805_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T052016_20171113T052124_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T061322_20171113T061411_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T073745_20171113T074023_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T075126_20171113T075350_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T083215_20171113T083747_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T090054_20171113T090630_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T095755_20171113T095919_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T100952_20171113T101031_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T105548_20171113T105944_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T113746_20171113T113750_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T114243_20171113T114423_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T114940_20171113T120100_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T123504_20171113T123719_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T124837_20171113T125233_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T130220_20171113T130408_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T131643_20171113T132403_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T133053_20171113T133816_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T133819_20171113T133838_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T142209_20171113T142216_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T144529_20171113T144538_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T150949_20171113T151530_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T151618_20171113T151703_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T155333_20171113T155412_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T162443_20171113T162547_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T164602_20171113T164651_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T170936_20171113T171401_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T171414_20171113T171822_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T174005_20171113T174012_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T182726_20171113T183242_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T191047_20171113T191319_C001	Attitude correction missing	The attitude has not been corrected

CS_OFFL_SIR_IOPR1B_20171113T192455_20171113T192644_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T210346_20171113T210710_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T215121_20171113T215237_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T222815_20171113T222836_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T222839_20171113T223217_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T231904_20171113T231920_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T233047_20171113T233051_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T233445_20171113T233801_C001	Attitude correction missing	The attitude has not been corrected
CS_OFFL_SIR_IOPR1B_20171113T234002_20171113T234325_C001	Attitude correction missing	The attitude has not been corrected

#### 4.6 L1B Waveform Group Data Check

CryoSat L1B data includes a waveform data flag for each measurement record. The bit value of this flag indicates any problems when set.

Loss of Echo Flag: This flag is currently set for products over land, but this is to be expected.

Number of products with errors: 23

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20171113T011556_20171113T012039_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20171113T012047_20171113T015101_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20171113T053549_20171113T054052_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20171113T100850_20171113T100952_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20171113T152423_20171113T153621_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171113T051805_20171113T052016_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171113T101031_20171113T101056_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171113T101059_20171113T101125_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171113T102100_20171113T102214_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171113T114423_20171113T114538_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171113T123719_20171113T124135_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171113T132648_20171113T133053_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171113T150855_20171113T150949_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171113T164402_20171113T164602_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171113T164651_20171113T164903_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20171113T223907_20171113T224225_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171113T001238_20171113T001941_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171113T015217_20171113T015337_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171113T023625_20171113T024324_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171113T091542_20171113T091958_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171113T160516_20171113T161009_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171113T205008_20171113T205204_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20171113T233117_20171113T233204_C001	Loss of Echo	The tracking echo is missing for one or more records

# 5. IOP Level 2 Data Quality Check

#### 5.1 L2 Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL).

Number of products with errors:

### 5.2 L2 Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.

Number of products with errors:

#### 5.3 L2 Auxiliary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.

Number of products with errors:

### 5.4 L2 Auxiliary Correction Error Check

For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767).

0

Number of products with errors:

# 5.5 L2 Measurement Confidence Data Check

CryoSat L2 data includes a measurement confidence flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20171113T045023_20171113T050452_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOPM_2_20171113T100850_20171113T100951_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOPM_2_20171113T220209_20171113T220310_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOPM_2_20171113T233840_20171113T233902_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

### 5.6 L2 Range Measurement Check

CryoSat L2 data includes an Ocean and Ice Range Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are two common status flags raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

Ocean Range Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ice Range Averaging Status Flag: This flag is currently set for products over land, but this is to be expected.

Number of products with errors:

80

Product	Test Failed	Description   The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20171113T000044_20171113T001103_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20171113T002147_20171113T002620_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T004208_20171113T004651_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T004839_20171113T005849_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T010536_20171113T010846_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T011556_20171113T012039_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T012047_20171113T015101_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T020508_20171113T021207_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T021226_20171113T023625_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T025030_20171113T025233_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T025519_20171113T031216_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T031415_20171113T032347_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T033955_20171113T034405_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20171113T034520_20171113T040059_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20171113T040718_20171113T041855_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS OFFL SIR IOPM 2 20171113T042442 20171113T042708 C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
		records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20171113T042736_20171113T043159_C001	Ice Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20171113T043422_20171113T044844_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20171113T045023_20171113T050452_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T052353_20171113T052554_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T052717_20171113T053426_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T053549_20171113T054052_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T054256_20171113T055856_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T060226_20171113T061112_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T061411_20171113T063552_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T071315_20171113T073745_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T074149_20171113T074332_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T074436_20171113T074904_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T075350_20171113T081755_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T084630_20171113T090054_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T090630_20171113T091542_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T092351_20171113T092942_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T093305_20171113T095215_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS OFFL SIR IOPM 2 20171113T100850 20171113T100951 C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS OFFL SIR IOPM 2 20171113T102215 20171113T105548 C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20171113T110257_20171113T110813_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
		records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20171113T111455_20171113T111746_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20171113T114538_20171113T114940_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20171113T120100_20171113T121103_C001	Ocean Range Averaging Status	records.  The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20171113T121349_20171113T123504_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20171113T124135_20171113T124258_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T124305_20171113T124713_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T125233_20171113T130220_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T130408_20171113T131126_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T133838_20171113T141358_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_IOPM_2_20171113T141635_20171113T142157_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T142216_20171113T142455_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T143258_20171113T144529_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T144538_20171113T150312_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T152038_20171113T152333_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T152423_20171113T153621_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T153824_20171113T155333_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T155554_20171113T160054_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T160133_20171113T160255_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T161009_20171113T162035_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T162654_20171113T164306_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T171822_20171113T173204_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T173510_20171113T174005_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T174745_20171113T180919_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T180921_20171113T182119_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T184822_20171113T191046_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T191552_20171113T191921_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T191943_20171113T192311_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T192644_20171113T195237_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T195240_20171113T195446_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T202603_20171113T205008_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T205334_20171113T205835_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T205842_20171113T210209_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T210710_20171113T211645_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T212222_20171113T214001_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T215237_20171113T215447_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T222523_20171113T222815_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T223333_20171113T223906_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T235139_20171114T000714_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20171113T051306_20171113T051358_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20171113T123719_20171113T124135_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20171113T033719_20171113T033834_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20171113T090054_20171113T090630_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20171113T105548_20171113T105944_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20171113T233047_20171113T233051_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

## 5.7 L2 SWH and Backscatter Measurement Check

CryoSat L2 data includes a SWH Averaging Status flag and an Ocean and Ice Backscatter Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are three common status flags raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

SWH Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ocean Backscatter Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ice Backscatter Averaging Status Flag: This flag is currently set for products over land, but this is to be expected.

Product	Test Failed	Description
	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS OFFE SIR IOPM 2 201711131002147 201711131002620 C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS OFFE SIR IOPM 2 201711131004208 201711131004651 C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T004839_20171113T005849_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T010536_20171113T010846_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS OFFE SIR IOPM 2 201711131011556 201711131012039 C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T020508_20171113T021207_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

Computer		0.4/1.4	T. 0000 10 10 10 10 10 10 10 10 10 10 10 1
According to the content of the co	CS_OFFL_SIR_IOPM_2_20171113T021226_20171113T023625_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
2, 0.11	CS_OFFL_SIR_IOPM_2_20171113T025519_20171113T031216_C001		
Col. Col.   Co	CS OFFL SIR IOPM 2 20171113T031415 20171113T032347 C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
Dec.   Company			
Secretary Annies (1997) (1998)			
Seg. CFE, Biol (MPL_2007113700482_007113700492_007  Seg. CFE_Biol (MPL_2007113700492_007113700492_007  Seg.	CS_OFFL_SIR_IOPM_2_20171113T034520_20171113T040059_C001	Backscatter Averaging Status	more records.
Compact   Comp	CS_OFFL_SIR_IOPM_2_20171113T040718_20171113T041855_C001		more records.
Specific Control (1997) In the Control (1997	CS_OFFL_SIR_IOPM_2_20171113T042736_20171113T043159_C001	Ice Backscatter Averaging Status	
Sept. Bill. John J., 2017111100262, 201711100262, 20171100262, 2017100262, 20171100262, 20171100262, 20171100262, 20171100262, 2017100262, 20171100262, 20171100262, 20171100262, 20171100262, 2017100262, 20171100262, 20171100262, 20171100262, 20171100262, 2017100262, 20171100262, 20171100262, 20171100262, 20171100262, 2017100262, 2017100262, 2017100262, 2017100262, 2017100262, 2017100262, 2017100262, 2017100262, 2017100262, 2017100262, 2017100262, 20	CS_OFFL_SIR_IOPM_2_20171113T043422_20171113T044844_C001	0 0	
SOLOFFE, SIN, CHINA 2, 2011111100000, 2011110100000, 20111  SOLOFFE, SIN, CHINA 2, 20111110100000, 2011110100000, 20111  SOLOFFE, SIN, CHINA 2, 20111110100000, 201110100000, 20111  SOLOFFE, SIN, CHINA 2, 2011110100000, 2011101000000, 201110100000, 201110100000, 201110100000, 2011101000000, 2011101000000, 201110	CS_OFFL_SIR_IOPM_2_20171113T045023_20171113T050452_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
Co. CHI., SIN. CHI. 2. 2011113103546_071113103546_071131031546_071131031546_071131031546_071131031546_071131031546_071131031036_071131031546_071131031316_071131031546_07113		SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
So CP4_SIN_OPM_2_POTT1117102602_20171131102602_C01711311102602_C01711311102602_C01711311102602_C01711311102602_C01711311102602_C01711311102602_C01711311102602_C01711311102602_C017113111102602_C01711311102602_C01711311102602_C017113111102602_C0171			
Sec. (Perf., Ser. (Dent. 2, 2071113106431); 2071113106411; 207113106411; 20711131			
Secretary Accorage Status  CS_CFF_BR_DPU_2_201711131091412_20171131701432_C001  CS_CFF_BR_DPU_2_201711131701432_2017103170449_20171131701432_C001  CS_CFF_BR_DPU_2_20171131701449_2017113170449_C001  CS_CFF_BR_DPU_2_20171131701449_2017113170449_C001  CS_CFF_BR_DPU_2_2017113170449_2017113170449_C001  CS_CFF_BR_DPU_2_2017113170449_C001  CS_CFF_BR_DPU_2_201711317104920_001  CS_CFF_BR_DPU_2_2017113171140040_C001  CS_CFF_BR_DPU_2_2017113171140040_C001  CS_CFF_BR_DPU_2_201711317114004_C001  CS_CFF_BR_DPU_2_20171131714004_C001  CS_CFF_BR_DPU_2_20171131714004_C001  CS_CFF_BR_DPU_2_20171131714004_C001  CS_CFF_BR_DPU_2_20171131714004_C001  CS_CFF_BR_DPU_2_	CS_OFFL_SIR_IOPM_2_20171113T053549_20171113T054052_C001	Backscatter Averaging Status	more records.
Experimental control of the control	CS_OFFL_SIR_IOPM_2_20171113T054256_20171113T055856_C001		more records.
Deskaster Averaging State  SPIFL SERV_PML_2.2011115170449_2011115170449.2010  SSPIFL SERV_PML_2.2011115170449_2011115170449.2010  SSPIFL SERV_PML_2.2011115170449_2011115170490_2010  SSPIFL SERV_PML_2.2011115170499_2011115170490_2010  SSPIFL SERV_PML_2.2011115170499_2011115170490_2010  SSPIFL SERV_PML_2.2011115170499_2011115170490_2010  SSPIFL SERV_PML_2.2011115170499_2011115170499_2010  SSPIFL SERV_PML_2.2011115170499_201115170499_2010  SSPIFL SERV_PML_2.2011115170499_201115170499_2010  SSPIFL SERV_PML_2.2011115170499_201115170499_2010  SSPIFL SERV_PML_2.2011115170499_20110_201115170499_2010  SSPIFL SERV_PML_2.2011115170499_201115170499_2010  SSPIFL SERV_PML_2.2011115170499_20110_201115170499_2010  SSPIFL SERV_PML_2.2011115170499_201115170499_2010  SSPIFL SERV_PML_2.2011115170499_20110_201115170499_2010  SSPIFL SERV_PML_2.2011115170499_20101  SSPIFL SERV_PML_2.201	CS_OFFL_SIR_IOPM_2_20171113T060226_20171113T061112_C001		records.
Section 2 - 2017113701436 2017113701490 20171  Section 3 - 2017113701430 2017113701490 20171  Section 3 - 2017113701430 2017113	CS_OFFL_SIR_IOPM_2_20171113T061411_20171113T063552_C001	Backscatter Averaging Status	more records.
S. OFFL. SIR. JOHN 2_2017113170459_2017105170550.  S. OFFL. SIR. JOHN 2_20171131706450_20171131709152.  CO. OFFL. SIR. JOHN 2_20171131706450_20171131709152.  CO. OFFL. SIR. JOHN 2_20171131706250_20171131709152.  CO. OFFL. SIR. JOHN 2_20171131706250_2017113170951.  CO. OFFL. SIR. JOHN 2_20171131706250_2017113170951.  CO. OFFL. SIR. JOHN 2_20171131706250_2017113170951.  CO. OFFL. SIR. JOHN 2_201711317106250_2017113170951.  CO. OFFL. SIR. JOHN 2_201711317106250_20171131710813_2001  CO. OFFL. SIR. JOHN 2_201711317106250_20171131710831_2001  CO. OFFL. SIR. JOHN 2_201711317116250_20171131710831_2001  CO. OFFL. SIR. JOHN 2_20171131711620_2011  SIR. JOHN 2_20171131711620_20171131711400_2011  CO. OFFL. SIR. JOHN 2_20171131711317120_2011  CO. OFFL. SIR. JOHN 2_201711317113120_20171131711400_2011  CO. OFFL. SIR. JOHN 2_20171131711317200_2011  CO. OFFL. SIR. JOHN 2_201711317113120_20171131711400_2011  CO. OFFL. SIR. JOHN 2_2017113171131200_2011  CO. OFFL. SIR. JOHN 2_201711317131200_2011  CO. OFFL. SIR. JOHN 2_20171131713131200_2011  CO. OFFL. SIR. JOHN 2_201711317131300_2011  CO. OFFL. SIR. JOHN 2_201711317131300_2011  CO. OFFL. SIR. JOHN 2_201711317131300_2	CS_OFFL_SIR_IOPM_2_20171113T071315_20171113T073745_C001		
S. OFFL. SR. (JOHA _2.0017113700300_001713700405_C001  SS. OFFL. SR. (JOHA _2.0017113700300_001713700405_C001  SS. OFFL. SR. (JOHA _2.0017113700300_0017113700905_C001  SS. OFFL. SR. (JOHA _2.0017113700300_0017113700905_C001  SS. OFFL. SR. (JOHA _2.0017113700300_0017113700905_C001  SS. OFFL. SR. (JOHA _2.00171137003000_0017113700905_C001  SS. OFFL. SR. (JOHA _2.0017113700300_0017113700905_C001  SS. OFFL. SR. (JOHA _2.0017113700300_0017113700905_C001  SS. OFFL. SR. (JOHA _2.00171137100300_00171137100905_C001  SS. OFFL. SR. (JOHA _2.00171137100300_001711371000516_C001  SS. OFFL. SR. (JOHA _2.00171137100300_00171137100516_C001  SS. OFFL. SR. (JOHA _2.001711371100000_001711371100516_C001  SS. OFFL. SR. (JOHA _2.0017113711137100000_001711371100516_C001  SS. OFFL. SR. (JOHA _2.001711371113711000000_00171137111700_001  SS. OFFL. SR. (JOHA _2.001711371113711000000_00171137111700_001  SS. OFFL. SR. (JOHA _2.001711371113711000000_00171137111700_001  SS. OFFL. SR. (JOHA _2.001711371113711000_00171137111700_001  SS. OFFL. SR. (JOHA _2.001711371113711000_00171137111000_0017113711170000000000	CS_OFFL_SIR_IOPM_2_20171113T074149_20171113T074332_C001	Ice Backscatter Averaging Status	records.
So, CPFL_SR_JOPM_2_2017111310130030_2017113100542_C001  So, CPFL_SR_JOPM_2_20171131000302_0017113100542_C001  So, CPFL_SR_JOPM_2_20171131000302_0017113100542_C001  So, CPFL_SR_JOPM_2_20171131000302_0017113100542_C001  So, CPFL_SR_JOPM_2_20171131000302_0017113100542_C001  So, CPFL_SR_JOPM_2_201711311000302_0017113100542_C001  So, CPFL_SR_JOPM_2_201711311000302_0017113100542_C001  So, CPFL_SR_JOPM_2_201711311003002_00171131100542_C001  So, CPFL_SR_JOPM_2_201711311100542_C001  So, CPFL_SR_JOPM_2_20171131110254_C001  So, CPFL_SR_JOPM_2_201711311100542_C001  So, CPFL_SR_JOPM_2_2017113111100542_C001  So, CPFL_SR_JOPM_2_20171131111055_001  So, CPFL_SR_JOPM_2_20171131111055_00171131110554_C001  So, CPFL_SR_JOPM_2_20171131111131100542_C001  So, CPFL_SR_JOPM_2_201711311131100542_C001  So, CPFL_SR_JOPM_2_2017113111131100542_C001  So, CPFL_SR_JOPM_2_2017113111131100543_C001  So, CPFL_SR_JOPM_2_2017113111131100543_C001  So, CPFL_SR_JOPM_2_201711311131100543_C001  So, CPFL_SR_JOPM_2_201711311131100543_C001  So, CPFL_SR_JOPM_2_201711311131100543_C001  So, CPFL_SR_JOPM_2_2017113111311000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20171113T074436_20171113T074904_C001	Ice Backscatter Averaging Status	
SS_OFFL_SIR_JOPM_2_20171113T109094_C001  SSWH Averaging Status Cease  SWH Averaging Status Cease  SWH Averaging Status Flags have been set for one or more records.  SOFFL_SIR_JOPM_2_20171113T109294_C001  SSWED STATES ST	CS_OFFL_SIR_IOPM_2_20171113T075350_20171113T081755_C001		* * *
SCOFFL_SIR_JOPM_2_201711137108030_201711371080150_C001  SCOFFL_SIR_JOPM_2_20171137108030_201711371080150_C001  SCOFFL_SIR_JOPM_2_20171137108030_2017113710801_C001  SCOFFL_SIR_JOPM_2_20171137108030_2017113710801_C001  SCOFFL_SIR_JOPM_2_20171137108030_20171137110801_C001  SCOFFL_SIR_JOPM_2_20171137110803_20171137110801_C001  SCOFFL_SIR_JOPM_2_20171137110803_20171137110803_C001  SCOFFL_SIR_JOPM_2_2017113711137110803_C001  SCOFFL_SIR_JOPM_2_201711371110803_C001  SCOFFL_SIR_JOPM_2_201711371110803_C001  SCOFFL_SIR_JOPM_2_201711371110803_C001  SCOFFL_SIR_JOPM_2_201711371113711080_C001  SCOFFL_SIR_JOPM_2_201711371110803_C001  SCOFFL_SIR_JOPM_2_201711371110803_C001  SCOFFL_SIR_JOPM_2_201711371110803_C001  SCOFFL_SIR_JOPM_2_20171137111371090_C001  SCOFFL_SIR_JOPM_2_2017113711371090_C001  SCOFFL_SIR_JOPM_2_2017113711371090_C001  SCOFFL_SIR_JOPM_2_2017113711371090_C001  SCOFFL_SIR_JOPM_2_2017113711371090_C001  SCOFFL_SIR_JOPM_2_2017113711371090_C001  SCOFFL_SIR_JOPM_2_201711371371090_C001  SCOFFL_SIR_JO	CS_OFFL_SIR_IOPM_2_20171113T084630_20171113T090054_C001	SWH Averaging Status, Ocean	
CS_OFFL_SIR_IOPM_2_20171113T109235_2017113T10925_C001  SS_OFFL_SIR_IOPM_2_2017113T10925_2017113T10925_C001  SS_OFFL_SIR_IOPM_2_2017113T10927_2017113T10925_C001  SS_OFFL_SIR_IOPM_2_2017113T10927_2017113T10925_C001  SS_OFFL_SIR_IOPM_2_2017113T10927_2017113T110925_C001  SS_OFFL_SIR_IOPM_2_2017113T10927_2017113T110925_C001  SS_OFFL_SIR_IOPM_2_2017113T110927_2017113T110925_C001  SS_OFFL_SIR_IOPM_2_2017113T110927_2017113T110925_C001  SS_OFFL_SIR_IOPM_2_2017113T1113T10925_C001  SS_OFFL_SIR_IOPM_2_2017113T11092_2017113T112050_C001  SS_OFFL_SIR_IOPM_2_2017113T11200_2017113T112050_C001  SS_OFFL_SIR_IOPM_2_2017113T1200_2017113T1200_C001  SS_OFFL_SIR_IOPM_2_2017113T1200_2017113T1200_C001  SS_OFFL_SIR_IOPM_2_2017113T1200_2017113T1200_C001  SS_OFFL_SIR_IOPM_2_2017113T1200_2017113T1200_C001  SS_OFFL_SIR_IOPM_2_2017113T12030_2017113T1200_C001  SS_OFFL_SIR_IOPM_2_2017113T12030_2017113T1200_C001  SS_OFFL_SIR_IOPM_2_2017113T12030_2017113T1200_C001  SS_OFFL_SIR_IOPM_2_2017113T12030_2017113T1200_C001  SS_OFFL_SIR_IOPM_2_2017113T12030_2017113T1200_C001  SS_OFFL_SIR_IOPM_2_2017113T12030_2017113T1200_C001  SS_OFFL_SIR_IOPM_2_2017113T12030_2017113T12000_C001  SS_OFFL_SIR_IOPM_2_2017113T12030_2017113T13T14000_C001  SS_OFFL_SIR_IOPM_2_2017113T13T141350_C001  SS_OFFL_SIR_IOPM_2_2017113T13T1413T141350_C001  SS_OFFL_SIR_IOPM_2_2017113T13T141350_C001  SS_OFFL_SIR_IOPM_2_2017113T13T141350_C001  SS_OFFL_SIR_IOPM_2_2017113T13T141350_C001  SS_OFFL_SIR_IOPM_2_2017113T13T141350_C001  SS_OFFL_SIR_IOPM_2_2017113T1413T141350_C001  SS_OFFL_SIR_IOPM_2_2017113T143T141350_C001  SS_OFFL_SIR_IOPM_2_2017113T143T14350_C001  SS_OFFL_SIR_	CS_OFFL_SIR_IOPM_2_20171113T090630_20171113T091542_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
SC OFFE, SIR_IOPM_2_20171113T10955_2017113T10955_C015  SC OFFE_SIR_IOPM_2_2017113T10955_2017113T10955_C015  SC OFFE_SIR_IOPM_2_2017113T1095_2017113T10955_C015  SC OFFE_SIR_IOPM_2_2017113T1095_2017113T1095_C015  SC OFFE_SIR_IOPM_2_2017113T1095_2017113T1095_C015  SC OFFE_SIR_IOPM_2_2017113T1095_20170113T1095_C015  SC OFFE_SIR_IOPM_2_2017113T1095_20170113T1095_C015  SC OFFE_SIR_IOPM_2_2017113T1095_20170113T1095_C015  SC OFFE_SIR_IOPM_2_2017113T1095_20170113T1095_C015  SC OFFE_SIR_IOPM_2_2017113T1095_2017001  SC OFFE_SIR_IOPM_2_2017113T1095_2017001  SC OFFE_SIR_IOPM_2_2017113T1293_2017001  SC OFFE_SIR_IOPM_2_2017113T13T233_2017001  SC OFFE_SIR_IOPM_2_2017113T13T131313_2017001  SC OFFE_SIR_IOPM_2_2017113T13T13131_2017001  SC OFFE_SIR_IOPM_2_2017113T13T13131_2017001  SC OFFE_SIR_IOPM_2_2017113T13T131313_2017001  SC OFFE_SIR_IOPM_2_2017113T13T13131_2017001  SC OFFE_SIR_IOPM_2_2017113T1313132_2017001  SC OFFE_SIR_IOPM_2_2017113T1	CS_OFFL_SIR_IOPM_2_20171113T092351_20171113T092942_C001		The Ice Backscatter Averaging Status Flag has been set for one or more
Section   Column	CS OFFL SIR IOPM 2 20171113T093305 20171113T095215 C001		The SWH and Ocean Averaging Status Flags have been set for one or
SOFFL SIR_IOPM_2_2017113T102215_2017113T106548_0001  SOFFL SIR_IOPM_2_2017113T110257_2017113T110613_0001  SOFFL SIR_IOPM_2_2017113T11458_2017113T11458_0001  SOFFL SIR_IOPM_2_2017113T11458_0001  SOFFL SIR_IOPM_2_2017113T1132050_0001  SOFFL SIR_IOPM_2_2017113T12435_0001  SOFFL SIR_IOPM_2_2017113T113250_0001  SOFFL SIR_IOPM_2_2017113T113250_0001  SOFFL SIR_IOPM_2_2017113T113250_0001  SOFFL SIR_IOPM_2_2017113T113250_0001  SOFFL SIR_IOPM_2_2017113T12435_0001  SOFFL SIR_IOPM_2_2017113T12435_0001  SOFFL SIR_IOPM_2_2017113T12350_0001  SOFFL SIR_IOPM_2_2017113T12435_0001  SOFFL SIR_IOPM_2_2017113T1312415_0001  SOFFL SIR_IOPM_2_2017113T131245_0001  SOFFL SIR_IOPM_2_2017113T131245_0001  SOFFL SIR_IOPM_2_2017113T131245_0001  SOFFL SIR_IOPM_2_2017113T131245_0001  SOFFL SIR_IOPM_2_2017113T131245_0001  SOFFL SIR_IOPM_2_2017113T133330_0011313330001  SOFFL SIR_IOPM_2_2017113T133300000000000000000000000000000	CS OFFL SIR IOPM 2 20171113T100850 20171113T100951 C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
SOFFL_SIR_IOPM_2_20171137111452_201711371146_C001 SWH Averaging Status. Coan Backscatter Averaging Status Flags have been set for one or more records. SOFFL_SIR_IOPM_2_2017113711452_2017113711260_C001 SWH Averaging Status. Coan Backscatter Averaging Status. Status Flags have been set for one or more records. SWH Averaging Status. Coan Backscatter Averaging Status Flags have been set for one or more records. SWH Averaging Status. Coan Backscatter Averaging Status Flags have been set for one or more records. SWH Averaging Status. Coan Backscatter Averaging Status Flags have been set for one or more records. SWH Averaging Status Flags have been set for one or more records. SWH Averaging Status Flags have been set for one or more records. SWH Averaging Status. Coan Backscatter Averaging Status Flags have been set for one or more records. SWH Averaging Status. Coan Backscatter Averaging Status Flags have been set for one or more records. SWH Averaging Status. Coan Backscatter Averaging Status Flags have been set for one or more records. SWH Averaging Status. Coan Backscatter Averaging Status Flags have been set for one or more records. SWH Averaging Status.		SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
SOPEL SIR_OPM_2_20171137111452_2017113711442_001 SWH Averaging Status. Coams backscatter Averaging Status. Series of come or or one of subscatter averaging Status. Series of come or or one of subscatter averaging Status. Series of come or or one of subscatter averaging Status. Series of come or or one or			The Ice Backscatter Averaging Status Flag has been set for one or more
SOFFL SIR (IOPM 2 20171137111921 20171137114940 C001 SWH Averaging Status, Ocean and Secondary Averaging Status Flags have been set for one or		SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
SOFFL SIR, IOPM 2, 20171113T144538 20171113T14950 C001  SOFFL SIR, IOPM 2, 20171113T14255 C001  SOFFL SIR, IOPM 2, 20171113T14205 20171113T142713 C001  CS OFFL SIR, IOPM 2, 20171113T14205 20171113T142713 C001  CS OFFL SIR, IOPM 2, 20171113T14205 20171113T142713 C001  CS OFFL SIR, IOPM 2, 20171113T142713 C001  CS OFFL SIR, IOPM 2, 20171113T13T142713 C001  CS OFFL SIR, IOPM 2, 20171113T13T14270 C001  CS OFFL SIR, IOPM 2, 20171113T14455 C001  CS OFFL SIR, IOPM 2, 20171113T14455 C001  CS OFFL SIR, IOPM 2, 20171113T14455 C001  CS OFFL SIR, IOPM 2, 20171113T14458 C001  CS OFFL SIR, IOPM 2, 20171113T1455824 20171113T156035 C001  CS OFFL SIR, IOPM 2, 20171113T160034 C001  CS OFFL SIR, IOPM 2, 20171113T160035 C001  CS OFFL SIR, IOPM 2,		SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
SO FFE_SIR_IOPM_2_20171113T121123504_20170113T124256_C001  SO FFE_SIR_IOPM_2_20171113T12124256_C001  SO FFE_SIR_IOPM_2_2017113T124713_C001  CS_OFFE_SIR_IOPM_2_20171113T124713_C001  CS_OFFE_SIR_IOPM_2_20171113T124713_C001  CS_OFFE_SIR_IOPM_2_20171113T124713_C001  CS_OFFE_SIR_IOPM_2_20171113T124713_C001  CS_OFFE_SIR_IOPM_2_20171113T124713_C001  CS_OFFE_SIR_IOPM_2_20171113T13T124713_C001  CS_OFFE_SIR_IOPM_2_20171113T13T124713_C001  CS_OFFE_SIR_IOPM_2_20171113T13T124713_C001  CS_OFFE_SIR_IOPM_2_20171113T13T124713_C001  CS_OFFE_SIR_IOPM_2_20171113T13T124713_C001  CS_OFFE_SIR_IOPM_2_20171113T13T132817_C001  CS_OFFE_SIR_IOPM_2_20171113T13T132817_C001  CS_OFFE_SIR_IOPM_2_20171113T13T13T132817_C001  CS_OFFE_SIR_IOPM_2_20171113T13T13T13T13T13T13T13T13T13T13T13T13		SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
SS_OFFL_SIR_IOPM_2_20171113T12439_2017113T124256_CO01  SS_OFFL_SIR_IOPM_2_20171113T12439_2017113T124256_CO01  SS_OFFL_SIR_IOPM_2_20171113T124305_20171113T12430_CO01  SS_OFFL_SIR_IOPM_2_20171113T124305_20171113T130200_CO01  SS_OFFL_SIR_IOPM_2_20171113T124305_20171113T130200_CO01  SS_OFFL_SIR_IOPM_2_20171113T130408_20171113T130200_CO01  SS_OFFL_SIR_IOPM_2_20171113T130408_20171113T130200_CO01  SS_OFFL_SIR_IOPM_2_20171113T130408_20171113T130400_CO01  SS_OFFL_SIR_IOPM_2_20171113T130408_20171113T130400_CO01  SS_OFFL_SIR_IOPM_2_20171113T3132017_CO01  SS_OFFL_SIR_IOPM_2_20171113T33338_20171113T34250_CO01  SS_OFFL_SIR_IOPM_2_20171113T33338_20171113T34255_CO01  SS_OFFL_SIR_IOPM_2_20171113T133338_20171113T14255_CO01  SS_OFFL_SIR_IOPM_2_20171113T144358_CO01  SS_OFFL_SIR_IOPM_2_20171113T144538_CO01  SS_OFFL_SIR_IOPM_2_20171113T1453838_CO01  SS_OFFL_SIR_IOPM_2_20171113T1453830_CO01  SS_OFFL_SIR_IOPM_2_20171113T144538_CO01  SS_OFFL_SIR_IOPM_2_20171113T145384_CO01  SS_OFFL_SIR_IOPM_2_20171113T162038_C00171113T162038_CO01  SS_OFFL_SIR_IOPM_2_20171113T162038_C00171113T162038_C001  SS_OFFL_SIR_IOPM_2_20171113T162038_C00171113T162038_C001  SS_OFFL_SIR_IOPM_2_20171113T162038_C00171113T162038_C001  SS_OFFL_SIR_IOPM_2_20171113T162038_C00171113T162038_C001  SS_OFFL_SIR_IOPM_2_20171113T162038_C00171113T162038_C001  SS_OFFL_SIR_IOPM_2_20171113T162038_C00171113T160034_C001  SS_OFFL_SIR_IOPM_2_20171113T160034_C001  SS_OFFL_SIR_IOPM_2_20171113T160034_C001  SS_OFFL_SIR_IOPM_2_20171113T160034_C001  SS_OFFL_SIR_IOPM_2_20171113T160034_C001  SS_OFFL_SIR_IOPM_2_20171113T160034_C001  SS_OFFL_SIR_IOPM_2_20171113T160034_C001  SS_OFFL_SIR_IOPM_2_20171113T160034_C001  SS_OFFL_SIR_IOPM_2_2		SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
Backscatter Averaging Status  Backsc			
CS_OFFL_SIR_IOPM_2_20171113T12435_20171113T12455_ CS_OFFL_SIR_IOPM_2_20171113T14315217_2017113T14358_ CS_OFFL_SIR_IOPM_2_20171113T14313121_ CS_OFFL_SIR_IOPM_2_20171113T1333838_20171113T14358_ CS_OFFL_SIR_IOPM_2_20171113T14313121_ CS_OFFL_SIR_IOPM_2_20171113T14313121_ CS_OFFL_SIR_IOPM_2_20171113T14313121_ CS_OFFL_SIR_IOPM_2_20171113T14358_ CS_OFFL_SIR_IOPM_2_20171113T14358_ CS_OFFL_SIR_IOPM_2_20171113T14358_ CS_OFFL_SIR_IOPM_2_20171113T14455_ CS_OFFL_SIR_IOPM_2_20171113T142157_ CS_OFFL_SIR_IOPM_2_20171113T142157_ CS_OFFL_SIR_IOPM_2_20171113T142157_ CS_OFFL_SIR_IOPM_2_20171113T142157_ CS_OFFL_SIR_IOPM_2_20171113T14258_ CS_OFFL_SIR_IOPM_2_20171113T14259_ CS_OFFL_SIR_IOPM_2_20171113T14259_ CS_OFFL_SIR_IOPM_2_20171113T14259_ CS_OFFL_SIR_IOPM_2_20171113T152038_ CS_OFFL_SIR_IOPM_2_20171113T152038_ CS_OFFL_SIR_IOPM_2_20171113T152038_ CS_OFFL_SIR_IOPM_2_20171113T152038_ CS_OFFL_SIR_IOPM_2_20171113T152038_ CS_OFFL_SIR_IOPM_2_20171113T152038_ CS_OFFL_SIR_IOPM_2_20171113T160038_			
CS_OFFL_SIR_IOPM_2_20171113T142305_20171113T130220_C001  SWH Averaging Status  SWH Avera		ice Backscatter Averaging Status	records.
SS_OFFL_SIR_IOPM_2_20171113T149258_20171113T14126_C001  SBackscatter Averaging Status SWH Averaging Status Coean Backscatter Averaging Status SWH Averaging	CS_OFFL_SIR_IOPM_2_20171113T124305_20171113T124713_C001		records.
Backscatter Averaging Status  SWH Averaging Status  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  SWH Averaging Status, Ocean Backscatter Averaging Status  The Loe Backscatter Averaging Status Flags h	CS_OFFL_SIR_IOPM_2_20171113T125233_20171113T130220_C001	Backscatter Averaging Status	more records.
Backscatter Averaging Status  SWH Averaging Status  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The loe Backscatter Averaging Status  The SWH and Ocean Averaging Status Flag has been set for one or more records.  The loe Backscatter Averaging Status  The SWH and Ocean Averaging Status Flag has been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for	CS_OFFL_SIR_IOPM_2_20171113T130408_20171113T131126_C001		
SWH Averaging Status, Ocean Backscatter Averaging Status Flags have been set for one or more records.  SWH Averaging Status  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The Ise Backscatter Averaging Status Flag has been set for one or more records.  The Ise Backscatter Averaging Status Flag has been set for one or more records.  The Ise Backscatter Averaging Status Flag has been set for one or more records.  The Ise Backscatter Averaging Status Flag has been set for one or more records.  The Ise Backscatter Averaging Status Flag has been set for one or more records.  The Ise Backscatter Averaging Status Flag has been set for one or more records.  The SWH and Ocean Averaging Status Flag has been set for one or more records.  The SWH and Ocean Averaging Status Flag has been set for one or more records.  The SWH and Ocean Averaging Status Flag has been set for one or more records.  The SWH and Ocean Averaging Status Flag has been set for one or more records.  The SWH and Ocean Averaging Status Flag has been set for one or more records.  The SWH and Ocean Averaging Status Flag has been set for one or more records.  The SWH and Ocean Averaging Status Flag has been set for one or more records.  The SWH and Ocean Averaging Status Flag have been set for one or more records.  The SWH and Ocean Averaging Status Flag have been set for one or more records.  The SWH and Ocean Averaging Status Flag have been set for one or more records.  The SWH and Ocean Averaging Status Flag have been set for one or more records.  The SWH and Ocean Averaging Status Flag have been set for one or more records.  The SWH and Ocean Averaging Status Flag have been set for one or more records.  The SWH and Ocean Averaging Status Flag have been set for one or more records.  The Ise Backscatter Averaging Status  The Ise Backscatter Averaging Status Flag have been set for one or more	CS_OFFL_SIR_IOPM_2_20171113T131211_20171113T131643_C001		
SWH Averaging Status Coean Backscatter Averaging Status Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20171113T14216_20171113T142455_C001	CS_OFFL_SIR_IOPM_2_20171113T132553_20171113T132617_C001		
CS_OFFL_SIR_IOPM_2_20171113T14215_C001	CS_OFFL_SIR_IOPM_2_20171113T133838_20171113T141358_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20171113T142216_20171113T144529_C001  CS_OFFL_SIR_IOPM_2_20171113T143258_20171113T144529_C001  SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status SWH and Ocean Averaging Status Flags have been set for one or more records.  CS_OFFL_SIR_IOPM_2_20171113T152038_20171113T152333_C001  CS_OFFL_SIR_IOPM_2_20171113T152233_C001  CS_OFFL_SIR_IOPM_2_20171113T152423_20171113T152333_C001  CS_OFFL_SIR_IOPM_2_20171113T152423_20171113T153621_C001  CS_OFFL_SIR_IOPM_2_20171113T152423_20171113T15333_C001  CS_OFFL_SIR_IOPM_2_20171113T153824_20171113T15333_C001  CS_OFFL_SIR_IOPM_2_20171113T162654_20171113T160054_C001  CS_OFFL_SIR_IOPM_2_20171113T160133_20171113T160255_C001  CS_OFFL_SIR_IOPM_2_20171113T16099_20171113T162035_C001  CS_OFFL_SIR_IOPM_2_20171113T162654_20171113T164006_C001  CS_OFFL_SIR_IOPM_2_20171113T162654_20171113T162035_C001  CS_OFFL_SIR_IOPM_2_20171113T173510_20171113T173204_C001  CS_OFFL_SIR_IOPM_2_20171113T173510_20171113T173204_C001  CS_OFFL_SIR_IOPM_2_20171113T173510_20171113T173204_C001  CS_OFFL_SIR_IOPM_2_20171113T173510_20171113T173204_C001  CS_OFFL_SIR_IOPM_2_20171113T173510_20171113T173204_C001  CS_OFFL_SIR_IOPM_2_20171113T173510_20171113T173204_C001  CS_OFFL_SIR_IOPM_2_20171113T173510_20171113T173204_C001  CS_OFFL_SIR_IOPM_2_20171113T1	CS_OFFL_SIR_IOPM_2_20171113T141635_20171113T142157_C001		The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20171113T144538_20171113T14529_C001  SWH Averaging Status, Ocean Backscatter Averaging Status SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The Ice Backscatter Averaging Status Flags have been set for one or more records.  The Ice Backscatter Averaging Status Flags have been set for one or more records.  SWH Averaging Status, Ocean Backscatter Averaging Status Flags have been set for one or more records.  SWH Averaging Status, Ocean Backscatter Averaging Status  SWH Averaging Status, Ocean Backscatter Averaging Status  The Ice Backscatter Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and	CS_OFFL_SIR_IOPM_2_20171113T142216_20171113T142455_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20171113T14538_20171113T152333_C001  CS_OFFL_SIR_IOPM_2_20171113T152038_20171113T152333_C001  CS_OFFL_SIR_IOPM_2_20171113T152038_20171113T152333_C001  CS_OFFL_SIR_IOPM_2_20171113T152423_20171113T153621_C001  CS_OFFL_SIR_IOPM_2_20171113T153824_20171113T15333_C001  CS_OFFL_SIR_IOPM_2_20171113T153824_20171113T15333_C001  CS_OFFL_SIR_IOPM_2_20171113T153824_20171113T160054_C001  CS_OFFL_SIR_IOPM_2_20171113T160133_20171113T160255_C001  CS_OFFL_SIR_IOPM_2_20171113T160133_20171113T160255_C001  CS_OFFL_SIR_IOPM_2_20171113T160133_20171113T162035_C001  CS_OFFL_SIR_IOPM_2_20171113T162654_20171113T162035_C001  CS_OFFL_SIR_IOPM_2_20171113T162654_20171113T162035_C001  CS_OFFL_SIR_IOPM_2_20171113T162654_20171113T162035_C001  CS_OFFL_SIR_IOPM_2_20171113T162654_20171113T162035_C001  CS_OFFL_SIR_IOPM_2_20171113T162654_20171113T162035_C001  CS_OFFL_SIR_IOPM_2_20171113T162654_20171113T162035_C001  CS_OFFL_SIR_IOPM_2_20171113T162035_C001  CS_OFFL_SIR_IOPM_2_20171113T162035_C001  CS_OFFL_SIR_IOPM_2_20171113T162654_20171113T162035_C001  CS_OFFL_SIR_IOPM_2_20171113T162035_C001  CS_OFFL_SIR_IOPM_2_20171113T162035_C001  CS_OFFL_SIR_IOPM_2_20171113T162035_C001  CS_OFFL_SIR_IOPM_2_20171113T162035_C001  CS_OFFL_SIR_IOPM_2_20171113T162035_C001  CS_OFFL_SIR_IOPM_2_20171113T162035_C001  CS_OFFL_SIR_IOPM_2_20171113T162035_C001  CS_OFFL_SIR_IOPM_2_20171113T162035_C001  CS_OFFL_SIR_IOPM_2_20171113T16205_C001  CS_OFFL_SIR_IOPM_2_20171113T173510_20171113T173204_C001  CS_OFFL_SIR_IOPM_2_20171113T173510_20171113T173204_C001  CS_OFFL_SIR_IOPM_2_20171113T173510_20171113T173500_C001  CS_OFFL_SIR_IOPM_2_20171113T173510_20171113T173500_C001  CS_OFFL_SIR_IOPM_2_20171113T173510_20171113T173500_C001  CS_OFFL_SIR_IOPM_2_20171113T173510_20171113T173500_C001  CS_OFFL_SIR_IOPM_2_20171113T173510_20171113T173500_C001  CS_OFFL_SIR_IOPM_2_20171113T173510_20171113T173500_C001  CS_OFFL_SIR_IOPM_2_20171113T173510_20171113T173500_C001  CS_OFFL_SIR_IOPM_2_20171113T173510_20171113T173500_C001  CS_OFFL_SIR_IOPM_2_20171113T173510_20171113T173500_C001  CS_	CS_OFFL_SIR_IOPM_2_20171113T143258_20171113T144529_C001		The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20171113T152038_20171113T152333_C001  CS_OFFL_SIR_IOPM_2_20171113T152423_20171113T153621_C001  CS_OFFL_SIR_IOPM_2_20171113T153824_20171113T15333_C001  CS_OFFL_SIR_IOPM_2_20171113T153824_20171113T15333_C001  CS_OFFL_SIR_IOPM_2_20171113T155554_20171113T160054_C001  CS_OFFL_SIR_IOPM_2_20171113T160133_20171113T160255_C001  CS_OFFL_SIR_IOPM_2_20171113T160133_20171113T160255_C001  CS_OFFL_SIR_IOPM_2_20171113T16009_20171113T16035_C001  CS_OFFL_SIR_IOPM_2_20171113T16009_20171113T162035_C001  CS_OFFL_SIR_IOPM_2_20171113T16009_20171113T162035_C001  CS_OFFL_SIR_IOPM_2_20171113T16009_20171113T162035_C001  CS_OFFL_SIR_IOPM_2_20171113T162654_20171113T164306_C001  CS_OFFL_SIR_IOPM_2_20171113T1713204_C001  CS_OFFL_SIR_IOPM_2_20171113T173510_20171113T173204_C001  CS_OFFL_SIR_IOPM_2_20171113T173510_20171113T173204_C001  CS_OFFL_SIR_IOPM_2_20171113T173510_20171113T173500_C001  CS_OFFL_SIR_IOPM_2_20171113T173510_C001  CS_OFFL_SIR_IOPM_2_20171113T173510_C001  CS_OFFL_SIR_IOPM_2_20171113T173510_C001  CS_OFFL_SIR_IOPM_2_20171113T173510_C001  CS_OFFL_SIR_IOPM_2_2017	CS_OFFL_SIR_IOPM_2_20171113T144538_20171113T150312_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20171113T152423_20171113T153621_C001  SWH Averaging Status, Ocean Backscatter Averaging Status, Ocean Backscatter Averaging Status  CS_OFFL_SIR_IOPM_2_20171113T153824_20171113T15333_C001  CS_OFFL_SIR_IOPM_2_20171113T155554_20171113T160054_C001  CS_OFFL_SIR_IOPM_2_20171113T160133_20171113T160255_C001  CS_OFFL_SIR_IOPM_2_20171113T160133_20171113T162035_C001  CS_OFFL_SIR_IOPM_2_20171113T161009_20171113T162035_C001  CS_OFFL_SIR_IOPM_2_20171113T162654_20171113T164306_C001  CS_OFFL_SIR_IOPM_2_20171113T162654_20171113T164306_C001  CS_OFFL_SIR_IOPM_2_20171113T171822_20171113T173204_C001  CS_OFFL_SIR_IOPM_2_20171113T171822_20171113T173204_C001  CS_OFFL_SIR_IOPM_2_20171113T173510_20171113T173204_C001  CS_OFFL_SIR_IOPM_2_20171113T173510_20171113T1	CS_OFFL_SIR_IOPM_2_20171113T152038_20171113T152333_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20171113T153824_20171113T155333_C001  SWH Averaging Status  CS_OFFL_SIR_IOPM_2_20171113T155554_20171113T160054_C001  CS_OFFL_SIR_IOPM_2_20171113T160133_20171113T160255_C001  CS_OFFL_SIR_IOPM_2_20171113T160133_20171113T162035_C001  CS_OFFL_SIR_IOPM_2_20171113T161009_20171113T162035_C001  CS_OFFL_SIR_IOPM_2_20171113T162654_20171113T164306_C001  CS_OFFL_SIR_IOPM_2_20171113T162654_20171113T164306_C001  CS_OFFL_SIR_IOPM_2_20171113T171822_20171113T173204_C001  CS_OFFL_SIR_IOPM_2_20171113T171822_20171113T173204_C001  CS_OFFL_SIR_IOPM_2_20171113T171822_20171113T173204_C001  CS_OFFL_SIR_IOPM_2_20171113T173510_20171113T173204_C001  CS_OFFL_SIR_IOPM_2_20171113T173510_20171113T173510_20171113T173510_20171113T173510_20171113T173510_20171113T173510_20171113T173510_20171113T173	CS OFFL SIR IOPM 2 20171113T152423 20171113T153621 C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20171113T155554_20171113T160054_C001  CS_OFFL_SIR_IOPM_2_20171113T160133_20171113T160255_C001  CS_OFFL_SIR_IOPM_2_20171113T160133_20171113T160255_C001  CS_OFFL_SIR_IOPM_2_20171113T161009_20171113T162035_C001  CS_OFFL_SIR_IOPM_2_20171113T162654_20171113T164306_C001  CS_OFFL_SIR_IOPM_2_20171113T162654_20171113T164306_C001  CS_OFFL_SIR_IOPM_2_20171113T171822_20171113T173204_C001  CS_OFFL_SIR_IOPM_2_20171113T171822_20171113T173204_C001  CS_OFFL_SIR_IOPM_2_20171113T173510_20171113T173204_C001  CS_OFFL_SIR_IOPM_2_20171113T173510_20171113T173005_C001  CS_OFFL_SIR_IOPM_2_20171113T173510_20171113T173005_C001  CS_OFFL_SIR_IOPM_2_20171113T173510_20171113T173005_C001  CS_OFFL_SIR_IOPM_2_20171113T173510_20171113T173005_C001		SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20171113T160133_20171113T160255_C001  Ice Backscatter Averaging Status  CS_OFFL_SIR_IOPM_2_20171113T161009_20171113T162035_C001  CS_OFFL_SIR_IOPM_2_20171113T162654_20171113T162035_C001  CS_OFFL_SIR_IOPM_2_20171113T162654_20171113T164306_C001  CS_OFFL_SIR_IOPM_2_20171113T171822_20171113T173204_C001  CS_OFFL_SIR_IOPM_2_20171113T171822_20171113T173204_C001  CS_OFFL_SIR_IOPM_2_20171113T173510_20171113T173204_C001  CS_OFFL_SIR_IOPM_2_20171113T173510_20171113T173005_C001  Ice Backscatter Averaging Status  SWH Averaging Status  SWH Averaging Status  SWH Averaging Status  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.  The SWH and Ocean Averaging Status Flags have been set for one or more records.			The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20171113T161009_20171113T162035_C001  CS_OFFL_SIR_IOPM_2_20171113T162654_20171113T162035_C001  CS_OFFL_SIR_IOPM_2_20171113T17162654_20171113T164306_C001  CS_OFFL_SIR_IOPM_2_20171113T171822_20171113T173204_C001  CS_OFFL_SIR_IOPM_2_20171113T171822_20171113T173204_C001  CS_OFFL_SIR_IOPM_2_20171113T173510_20171113T173005_C001  CS_OFFL_SIR_IOPM_2_20171113T173510_20171113T173005_C001  CS_OFFL_SIR_IOPM_2_20171113T173510_20171113T173005_C001  CS_OFFL_SIR_IOPM_2_20171113T173510_20171113T173005_C001  CS_OFFL_SIR_IOPM_2_20171113T173510_20171113T173005_C001			The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20171113T162654_20171113T164306_C001  CS_OFFL_SIR_IOPM_2_20171113T171822_20171113T173204_C001  CS_OFFL_SIR_IOPM_2_20171113T171822_20171113T173204_C001  CS_OFFL_SIR_IOPM_2_20171113T173510_20171113T173204_C001  CS_OFFL_SIR_IOPM_2_20171113T173510_20171113T173005_C001  Ice Backscatter Averaging Status  Intole fectors:  Intole fec		SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20171113T171822_20171113T173204_C001  SWH Averaging Status SWH Averaging Status SWH Averaging Status The SWH and Ocean Averaging Status Flags have been set for one or more records. The loe Backscatter Averaging Status The loe Backscatter Averaging Status The loe Backscatter Averaging Status Flags have been set for one or more records.		SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20171113T173510_20171113T174005_C001		SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
	C3_Vi FL_SIK_IOFW_2_201/111311/3510_201/111311/4005_C001	loc Daurscaller Averaging Status	

CS_OFFL_SIR_IOPM_2_20171113T174745_20171113T180919_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T180921_20171113T182119_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T184822_20171113T191046_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T191552_20171113T191921_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T191943_20171113T192311_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T192644_20171113T195237_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T195240_20171113T195446_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T202603_20171113T205008_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T205334_20171113T205835_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T205842_20171113T210209_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T210710_20171113T211645_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T212222_20171113T214001_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T215237_20171113T215447_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T222523_20171113T222815_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T223333_20171113T223906_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20171113T235139_20171114T000714_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20171113T051306_20171113T051358_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20171113T123719_20171113T124135_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20171113T033719_20171113T033834_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20171113T090054_20171113T090630_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20171113T105548_20171113T105944_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20171113T233047_20171113T233051_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

### 5.8 L2 Ocean Retracking Quality Check

CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below.

Number of products with errors:

### 6. IOP L2 Pole-to-Pole Data Quality Check

#### 6.1 P2P Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a NetCDF product file (.nc).

Number of products with errors:

#### 6.2 P2P Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.

Number of products with errors:

### 6.3 P2P Auxiliary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.

Number of products with errors:

# 6.4 P2P Auxiliary Correction Error Check

For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767).

Number of products with errors:

### 6.5 P2P Measurement Confidence Data Check

CryoSat P2P data includes a measurement confidence flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220171113T042641_20171113T051620_C002	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOP_220171113T092422_20171113T101401_C002	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOP_220171113T214836_20171113T223810_C002	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOP_220171113T232750_20171114T001724_C002	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

#### 6.6 P2P Range Measurement Check

CryoSat P2P data includes an Ocean and Ice Range Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are two common status flags raised in the P2P products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

		l
Product	Test Failed	Description
CS_OFFL_SIR_IOP_2_20171112T232900_20171113T001840_C003	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171113T001840_20171113T010814_C002	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171113T010814_20171113T015753_C002	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171113T015753_20171113T024727_C002	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171113T024727_20171113T033707_C002	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171113T033707_20171113T042641_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171113T042641_20171113T051620_C002	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171113T051620_20171113T060554_C002	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171113T060554_20171113T065534_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171113T065534_20171113T074508_C002	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171113T074508_20171113T083448_C002	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171113T083448_20171113T092422_C003	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171113T092422_20171113T101401_C002	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171113T110335_20171113T115315_C002	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171113T115315_20171113T124249_C002	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171113T124249_20171113T133228_C002	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171113T133228_20171113T142202_C002	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171113T142202_20171113T151142_C002	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171113T151142_20171113T160116_C002	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171113T160116_20171113T165055_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171113T165055_20171113T174029_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171113T174029_20171113T183009_C002	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171113T183009_20171113T191943_C002	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171113T191943_20171113T200923_C002	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171113T200923_20171113T205857_C002	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171113T214836_20171113T223810_C002	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20171113T232750_20171114T001724_C002	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

#### 6.7 P2P SWH and Backscatter Measurement Check

CryoSat P2P data includes a SWH Averaging Status flag and an Ocean and Ice Backscatter Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are three common status flags raised in the P2P products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

SWH Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ocean Backscatter Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ice Backscatter Averaging Status Flag: This flag is currently set for products over land, but this is to be expected.

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220171112T232900_20171113T001840_C003	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171113T001840_20171113T010814_C002	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171113T010814_20171113T015753_C002	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171113T015753_20171113T024727_C002	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171113T024727_20171113T033707_C002	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20171113T033707_20171113T042641_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20171113T042641_20171113T051620_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171113T051620_20171113T060554_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171113T060554_20171113T065534_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171113T065534_20171113T074508_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.

CS_OFFL_SIR_IOP_2_20171113T074508_20171113T083448_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220171113T083448_20171113T092422_C003	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20171113T092422_20171113T101401_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20171113T110335_20171113T115315_C002	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20171113T115315_20171113T124249_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20171113T124249_20171113T133228_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20171113T133228_20171113T142202_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20171113T142202_20171113T151142_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20171113T151142_20171113T160116_C002	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20171113T160116_20171113T165055_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20171113T165055_20171113T174029_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20171113T174029_20171113T183009_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20171113T183009_20171113T191943_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20171113T191943_20171113T200923_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20171113T200923_20171113T205857_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20171113T214836_20171113T223810_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20171113T232750_20171114T001724_C002	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

# 6.8 P2P Ocean Retracking Quality Check

Cryosat P2P data includes an ocean retracking quality flag (field 19) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below.

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220171112T232900_20171113T001840_C003	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171113T010814_20171113T015753_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171113T015753_20171113T024727_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171113T024727_20171113T033707_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171113T033707_20171113T042641_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171113T042641_20171113T051620_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171113T051620_20171113T060554_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171113T060554_20171113T065534_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171113T065534_20171113T074508_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171113T074508_20171113T083448_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171113T083448_20171113T092422_C003	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171113T092422_20171113T101401_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171113T110335_20171113T115315_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171113T115315_20171113T124249_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171113T124249_20171113T133228_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171113T133228_20171113T142202_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171113T142202_20171113T151142_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171113T151142_20171113T160116_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171113T160116_20171113T165055_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171113T174029_20171113T183009_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171113T183009_20171113T191943_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20171113T191943_20171113T200923_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.

CS_OFFL_SIR_IOP_220171113T200923_20171113T205857_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220171113T214836_20171113T223810_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20171113T232750_20171114T001724_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.